

Attorney's Docket: 2000DE441DSerial No.: 10/606,095Art Unit 1714Response to Office Action, Dated 11/14/2006

Please amend the Specification as follows:

Please amend paragraph [00100] as follows:

[00100] In order to assess the low-temperature properties, the pour point of the mixtures according to the invention was measured in accordance with ISO 3016 (Table 1) ~~and the cloud point was measured in accordance with ISO 3015 (Table 2).~~ The additive mixtures according to the invention were then stored for a number of days at various temperatures and subsequently assessed visually (Tables 3 to 5). C denotes comparative examples.

Please delete Table 2 and related footnotes on page 37:

Table 2: ~~Cloud points of the additives according to the invention~~

Example	Composition (parts by weight)						Cloud point
	A1	A2	B1	B2	B3	B4	
C8*	100						-27.0
28*	99.9995		0.0005				-33.0
29*	99.9995					0.0005	-30.5
30*	99.998		0.002				-33.5
31*	99.998					0.002	-33.5
32*	99.995		0.005				-31.0
33*	99.995					0.005	-32.2
34** (B5)	99.998		0.002				-29.0
35** (B6)	99.998		0.002				-31.0
36** (B7)	99.998		0.002				-35.5
37** (B8)	99.998		0.002				-37.0

* ~~These examples were obtained with a 50% by weight formulation of the fatty acid in solvent naphtha.~~

** ~~These examples relate to mixtures of A1 with in each case 2000 ppm of B5 to B8 and are obtained with a 50% by weight formulation of the fatty acid in solvent naphtha.~~

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Please Amend Table 8 on page 42 as follows:

Table 8: Wear scar in Test Oil 1

Example	Additive	Wear scar	Friction
C15	none	555 μm	0.33
63	100 ppm acc. to Ex. 37 A1 + 2000 ppm B8	385 μm	0.18
64	100 ppm A1+ 150 ppm B4	381 μm	0.18
C16	100 ppm A1	421 μm	0.18
C17	150 ppm B4	549 μm	0.34

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This listing of claims will replace all prior versions, and listings of claims in the application:

1.(Deleted)

2.(Deleted)

3.(Deleted)

4.(Deleted)

5.(Deleted)

6.(Deleted)

7.(Currently Amended) A low-temperature-stabilized solution comprising from 1 to 80% by weight of an organic solvent and a low-temperature-stabilized additive comprising:

A) a fatty acid mixture of

A1) from 1 to 99% by weight of at least one saturated mono- or dicarboxylic acid having from 6 to 50 carbon atoms,

A2) from 1 to 99% by weight of at least one unsaturated mono- or dicarboxylic acid having from 6 to 50 carbon atoms

and

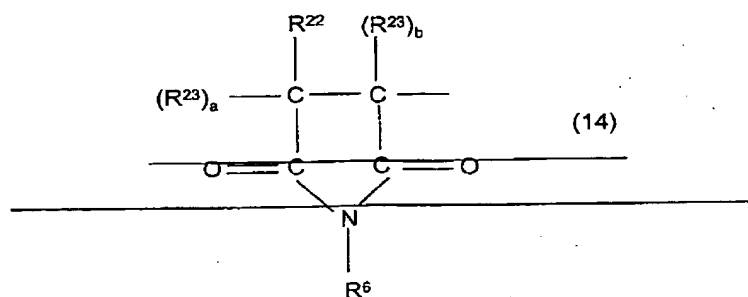
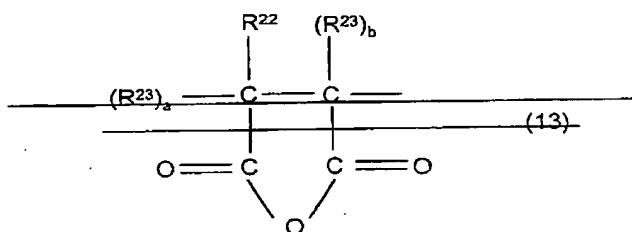
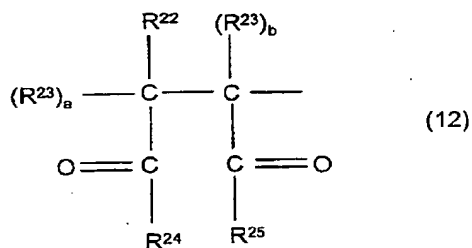
B) at least one polar nitrogen-containing compound which is effective as paraffin dispersant in middle distillates, in an amount of from 0.01 to 90% by weight, based on the total weight of A1), A2) and B),

wherein the fatty acid mixture of A1) and A2) has an iodine number of at least 40 g

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of 1 / 100 g, and said at least one polar nitrogen-containing compound B) is a terpolymer comprising:

- I) 20 – 80 mol% of a divalent structural unit selected from the group consisting of formula 12[[.]] 14, 13, and mixtures thereof,

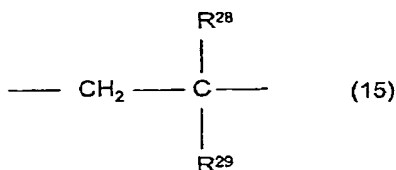


where

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R^{22} and R^{23} , independently of one another, are hydrogen or methyl, a and b are zero or one and $a + b$ is one, R^{24} and R^{25} are identical or different and are $[-NHR^6,]$ $N(R^6)_2$ or $-OR^{27}$ or a combination thereof, R^{27} is a cation of the formula $H_2N(R^6)_2$ $[[\text{or } H_3NR^6]]$, and R^6 is C_8-C_{36} -alkyl, C_6-C_{36} -cycloalkyl, C_8-C_{36} -alkenyl,

II) 19 - 80 mol% of a divalent structural unit of formula 15



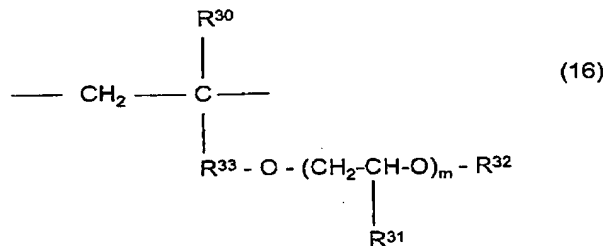
in

which

R^{28} is hydrogen or C_1-C_4 -alkyl, and

R^{29} is C_6-C_{60} -alkyl or C_6-C_{18} -aryl, and

III) 1 - 30 mol% of a divalent structural unit of formula 16



in which

R^{30} is hydrogen or methyl,

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R^{31} is hydrogen or C_1 - C_4 -alkyl,

R^{33} is C_1 - C_4 -alkylene,

m is a number from 1 to 100,

R^{32} is C_1 - C_{24} -alkyl, C_5 - C_{20} -cycloalkyl, C_6 - C_{18} -aryl or $-C(O)-R^{34}$,

where R^{34} is C_1 - C_{40} -alkyl, C_5 - C_{10} -cycloalkyl or C_6 - C_{18} -aryl.

8.(Deleted)

9.(Deleted)

10.(Canceled)

11.(Currently Amended) A method for improving the lubrication properties of low-sulfur middle distillates having a sulfur content of up to 0.05% by weight, said method comprising at a temperature of 0°C or below adding to said low-sulfur middle distillates an additive comprising:

A) a fatty acid mixture of

A1) from 1 to 99% by weight of at least one saturated mono- or dicarboxylic acid having from 6 to 50 carbon atoms,

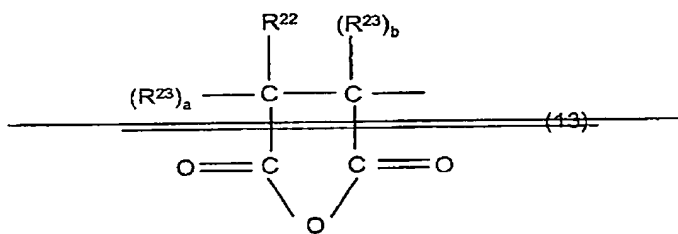
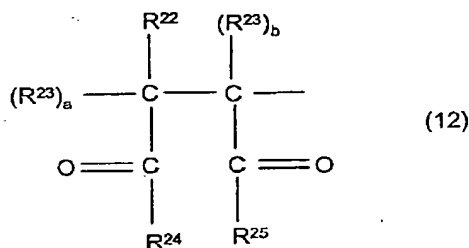
A2) from 1 to 99% by weight of at least one unsaturated mono- or dicarboxylic acid having from 6 to 50 carbon atoms, and

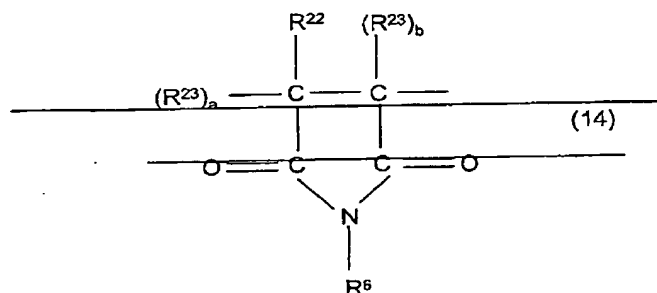
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B) at least one polar nitrogen-containing compound which is effective as paraffin dispersant in middle distillates, in an amount of from 0.01 to 90% by weight, based on the total weight of A1), A2) and B),

wherein the fatty acid mixture of A1) and A2) has an iodine number of at least 40 g of I / 100 g, wherein said at least one polar nitrogen-containing compound B) is a terpolymer comprising:

I) 20 – 80 mol% of a divalent structural unit selected from the group consisting of formula 12[[.]] 44, 13, and mixtures thereof,



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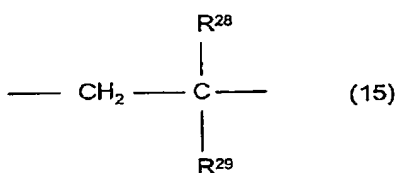
where

R^{22} and R^{23} , independently of one another, are hydrogen or methyl,

a and b are zero or one and $a + b$ is one,

R^{24} and R^{25} are identical or different and are $[-NHR^6]$, $N(R^6)_2$ or $-OR^{27}$ or a combination thereof, R^{27} is a cation of the formula $H_2N(R^6)_2$ [[or H_3NR^6]] and R^6 is C_8 - C_{36} -alkyl, C_6 - C_{36} -cycloalkyl or C_6 - C_{36} -alkenyl,[[.]]

II) 19 - 80 mol% of a divalent structural unit of formula 15



in

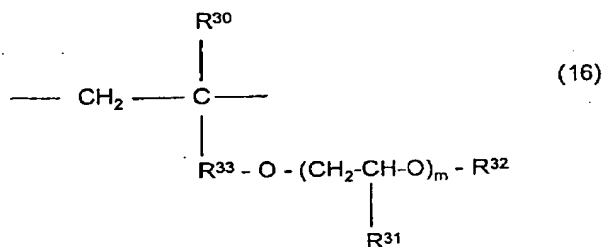
which

R^{28} is hydrogen or C_1 - C_4 -alkyl, and

R^{29} is C_6 - C_{60} -alkyl or C_6 - C_{18} -aryl, and

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III) 1 - 30 mol% of a divalent structural unit of formula 16



in which

R^{30} is hydrogen or methyl,

R^{31} is hydrogen or $\text{C}_1\text{--C}_4\text{--alkyl}$,

R^{33} is $\text{C}_1\text{--C}_4\text{--alkylene}$,

m is a number from 1 to 100,

R^{32} is $\text{C}_1\text{--C}_{24}\text{--alkyl}$, $\text{C}_5\text{--C}_{20}\text{--cycloalkyl}$, $\text{C}_6\text{--C}_{18}\text{--aryl}$ or ---C(O)---R^{34} ,

where R^{34} is $\text{C}_1\text{--C}_{40}\text{--alkyl}$, $\text{C}_5\text{--C}_{10}\text{--cycloalkyl}$ or $\text{C}_6\text{--C}_{18}\text{--aryl}$.

12.(Previously Presented) The method of claim 11, wherein the additive further comprises an organic solvent selected from the group consisting of aliphatic hydrocarbon, aromatic hydrocarbon, oxygen-containing hydrocarbon, and mixtures thereof.

13.(Previously Presented) The method of claim 11, wherein component B comprises oil-soluble polar amine salts or amides.

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14.(Previously Presented) The method of claim 11, wherein component A) comprises from 1 to 40% by weight of resin acids.

15.(Previously Presented) The method of claim 11, wherein component A) comprises from 1 to less than 20% by weight of A1) and from greater than 80 to 95% by weight of A2).

16.(Previously Presented) The method of claim 11, wherein A1) and A2) are each a mono- or dicarboxylic acid having from 12 to 22 carbon atoms.

17.(Previously Presented) The low-temperature-stabilized solution of claim 7, wherein the organic solvent selected from the group consisting of aliphatic hydrocarbon, aromatic hydrocarbon, oxygen-containing hydrocarbon, and mixtures thereof.